REMARKS/ARGUMENTS

I. Amendment to the Specification

The "Description of the Figures" section has been amended so the figure references correspond to the amended figure legends of some of the replacement drawings (see below).

None of these changes introduces new matter.

II. Formal Drawings

A complete set of formal drawings are attached. The figure references for FIGS. 9, 12, 13, 14, 30, 36, 42, 46, 47, 50, 51 and 53 that each include multiple sheets have been amended so the additional sheets no longer say "continued" but instead are labeled as sheets "A", "B," "C", etc.

Applicants also submit a correction to Figure 53. Figure 53 shows the DNA sequence of plasmid pGRN121, and the polypeptide encoded by this sequence (see the original specification at, e.g., page 83, lines 3-6, and page 16, lines 2-3). Applicants sequenced plasmid pGRN121, which was deposited with the American Type Culture Collection as ATCC accession #209016 on May 6, 1997, prior to the filing of the subject application. The deposit is noted in the original specification at page 82, lines 8-16. Although Applicants correctly determined the protein coding sequence of pGRN121, three nucleotide errors of an editorial or typographical nature were introduced during the preparation of the documents used as the basis for Figure 53. As noted in the accompanying annotated sheets, the codon at position 578 was transcribed as "CCG (pro)" and has been corrected to "AAG (lys)," and the codon at position 958 was transcribed as "GTC (val)" and has been corrected to "CTC (leu)." The coding sequence of pGRN121 is an inherent property of the deposited plasmid, providing basis for this correction, and there is no new matter added by this correction.

The sequence listing submitted January 18,2002 provides the nucleotide and amino acid sequences as shown in the corrected version of Figure 53. Thus, no changes to the sequence listing are required.

Appl. No. 10/054,611 Amdt. dated July 26, 2004 Supplemental Amendment

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 303-571-4000.

Respectfully submitted,

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Attachments SLA:tnd 60268909 v1



FIGURE 53

						•							. 1	
							,							
CGCT	GCGI	CCTG	CTGC	GCAC	GTGC	GAAG	CCCI	GCC	CCGG	CCAC	CCCC	:GCG	ATG	
							10						• •	
	212	חצם	ara	CVS	arg	ala		arq	ser	leu	leu	arg	ser	
CCC	GCT	CCC	CGC	TGC	CGA	GCC	GTG	CGC	TCC	CTG	CTG	CGC	AGC	
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		20		_						3			1	
tyr	arg	glu	val	leu	pro	leu	ala	thr	pne	Val	arg	ccc	CTC	
TAC	CGC	GAG	GIG	CIG	CCG	CIG	GCC	ACG	110	GIG	CGG		CIG	
							40		:					
pro	gln	gly	trp	arg	leu.	val	gln	arg	gly	asp	pro	ala	ala	٠.
CCC	CAG	GGC	TGG	CGG	CTG	GTG	CAG	CGC	GGG	GAC	CCG	GCG	GC'I'	
	•	50					:	•				60		
àrα	ala	leu	val	ala	gln	cys	leu	val	cys	val	pro	trp	asp	
CGC	GCG	CTG	GTG	GCC	CAG	TGC	CTG	GTG	TGC	GTG	CCC	TGG	GAC	
		~~~	~~~	212	ala	nro		nhe	ara	αln	val	ser	cvs	
ccc	DIO.	CCC	CCC	GCC	GCC	CCC	TCC	TTC	CGC	CAG	GTG	TCC	TGC	
C 0 0														
		80		_		_				• • • • •				
lys	glu	leu	val	ala	arg	val	Teu	gin	arg	Ten	TCC	GAG	arg	
AAG	GAG	CTG.	GIG	GCC	CGA	GIG	CIG	CAG	AGG	CIG	160	GAG		-
	•						100							
ala	lys	asn	val	leu	ala	phe	gly	phe	ala	leu	leu	asp	gly	
GCG	AAG	AAC	GTG	CTG	GCC	TTC	GGC	TTC	GCG	CTG	CTG	GAC	GGG	
		110									٠.	120		
ard	alv		pro	pro	σlu	ala	phe	thr	thr	ser	val		ser	
CGC	GGG	GGC	CCC	CCC	ĞAG	GCC	TTC	ACC	ACC	AGC	GTG	CGC	AGC	
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	arg CGC tyr TAC pro CCC arg CGC lys AAG ala GCG arg CGC	arg ala CGC GCT  tyr arg TAC CGC  pro gln CCC CAG  arg ala CGC GCG  lys glu AAG GAG  ala lys GCG AAG  arg gly CGC GGG	arg ala pro CGC GCT CCC  20 tyr arg glu TAC CGC GAG  pro gln gly CCC CAG GGC  arg ala leu CGC GCG CTG  arg pro pro CGG CCG CCC  80 lys glu leu AAG GAG CTG  ala lys asn GCG AAG AAC  arg gly gly CGC GGG GGC	arg ala pro arg CGC GCT CCC CGC  20 tyr arg glu val TAC CGC GAG GTG  pro gln gly trp CCC CAG GGC TGG  arg ala leu val CGC GCG CTG GTG  arg pro pro pro CGG CCG CCC CCC  80 lys glu leu val AAG GAG CTG GTG  ala lys asn val GCG AAG AAC GTG  arg gly gly pro CGC GGG GGC CCC  leu pro asn thr	arg ala pro arg cys CGC GCT CCC CGC TGC  20 tyr arg glu val leu TAC CGC GAG GTG CTG  pro gln gly trp arg CCC CAG GGC TGG CGG  arg ala leu val ala CGC GCG CTG GTG GCC  arg pro pro pro ala CGG CCG CCC CCC GCC  80 lys glu leu val ala AAG GAG CTG GTG GCC  ala lys asn val leu GCG AAG AAC GTG CTG  arg gly gly pro pro CGC GGG GGC CCC CCC  leu pro asn thr val	arg ala pro arg cys arg CGC GCT CCC CGC TGC CGA  20 tyr arg glu val leu pro TAC CGC GAG GTG CTG CCG  pro gln gly trp arg leu CCC CAG GGC TGG CGG CTG  arg ala leu val ala gln CGC GCG CTG GTG GCC CAG  arg pro pro pro ala ala CGG CCG CCC CCC GCC GCC  195 glu leu val ala arg AAG GAG CTG GTG GCC CGA  ala lys asn val leu ala GCG AAG AAC GTG CTG GCC  arg gly gly pro pro glu CGC GGG GGC CCC CCC GAG  leu pro asn thr val thr	arg ala pro arg cys arg ala CGC GCT CCC CGC TGC CGA GCC  tyr arg glu val leu pro leu TAC CGC GAG GTG CTG CCG CTG  pro gln gly trp arg leu val CCC CAG GGC TGG CGG CTG GTG  arg ala leu val ala gln cys CGC GCG CTG GTG GCC CAG TGC  arg pro pro pro ala ala pro CGG CCG CCC CCC GCC CCC  lys glu leu val ala arg val AAG GAG CTG GTG GCC CGA GTG  ala lys asn val leu ala phe GCG AAG AAC GTG CTG GCC TTC  arg gly gly pro pro glu ala CGC GGG GGC CCC CCC GAG GCC	arg ala pro arg cys arg ala val CGC GCT CCC CGC TGC CGA GCC GTG  20 tyr arg glu val leu pro leu ala TAC CGC GAG GTG CTG CCG CTG GCC  pro gln gly trp arg leu val gln CCC CAG GGC TGG CGG CTG GTG CAG  arg ala leu val ala gln cys leu CGC GCG CTG GTG GCC CAG TGC CTG  arg pro pro pro ala ala pro ser CGG CCG CCC CCC GCC GCC CCC TCC  80 lys glu leu val ala arg val leu AAG GAG CTG GTG GCC CGA GTG CTG  ala lys asn val leu ala phe gly GCG AAG AAC GTG CTG GCC TTC GGC  arg gly gly pro pro glu ala phe CGC GGG GGC CCC CCC CCC GAG GCC TTC  100 arg gly gly pro pro glu ala phe CGC GGG GGC CCC CCC CCC GAG GCC TTC  130 leu pro asn thr val thr asp ala	arg ala pro arg cys arg ala val arg CGC GCT CCC CGC TGC CGA GCC GTG CGC  tyr arg glu val leu pro leu ala thr TAC CGC GAG GTG CTG CCG CTG GCC ACG  pro gln gly trp arg leu val gln arg CCC CAG GGC TGG CGG CTG GTG CAG CGC  arg ala leu val ala gln cys leu val CGC GCG CTG GCC CAG GTG CTG GTG CTG GTG CTG GTG  arg pro pro pro ala ala pro ser phe CGG CCG CCC CCC GCC GCC CCC TCC TTC  80  lys glu leu val ala arg val leu gln AAG GAG CTG GTG GCC CGA GTG CTG CAG  ala lys asn val leu ala phe gly phe GCG AAG AAC GTG CTG GCC TTC GGC TTC  arg gly gly pro pro glu ala phe thr CGC GGG GGC CCC CCC GAG GCC TTC ACC  leu pro asn thr val thr asp ala leu	arg ala pro arg cys arg ala val arg ser CGC GCT CCC CGC TGC CGA GCC GTG CGC TCC  tyr arg glu val leu pro leu ala thr phe TAC CGC GAG GTG CTG CCG CTG GCC ACG TTC  pro gln gly trp arg leu val gln arg gly CCC CAG GGC TGG CGG CTG GTG CAG CGC GGG  arg ala leu val ala gln cys leu val cys CGC GCG CTG GTG CAG TGC  arg pro pro pro ala ala pro ser phe arg CGG CCG CCC CCC GCC GCC CCC TCC TTC CGC  1ys glu leu val ala arg val leu gln arg AAG GAG CTG GTG GCC CGA GTG CTG CAG AGG  ala lys asn val leu ala phe gly phe ala GCG AAG AAC GTG CTG GCC TTC GCC TTC GCG  arg gly gly pro pro glu ala phe thr thr CGC GGG GGC CCC CCC CCC GAG GCC TTC ACC ACC	arg ala pro arg cys arg ala val arg ser leu CGC GCT CCC CGC TGC CGA GCC GTG CGC TCC CTG  20  tyr arg glu val leu pro leu ala thr phe val TAC CGC GAG GTG CTG CCG CTG GCC ACG TTC GTG  pro gln gly trp arg leu val gln arg gly asp CCC CAG GGC TGG CGG CTG GTG CAG CGC GGG GAC  arg ala leu val ala gln cys leu val cys val CGC GCG CTG GTG CAG TGC CTG GTG  arg pro pro pro ala ala pro ser phe arg gln CGG CCG CCC CCC GCC GCC CCC TCC TTC CGC CAG  80  lys glu leu val ala arg val leu gln arg leu AAG GAG CTG GTG GCC CGA GTG CTG CAG AGG CTG  ala lys asn val leu ala phe gly phe ala leu GCG AAG AAC GTG CTG GCC TTC GGC TTC GCG CTG  arg gly gly pro pro glu ala phe thr thr ser CGC GGG GGC CCC CCC CCC GAG GCC TTC ACC ACC AGC  110  arg gly gly pro pro glu ala phe thr thr ser CGC GGG GGC CCC CCC GAG GCC TTC ACC ACC AGC	arg ala pro arg cys arg ala val arg ser leu leu CGC GCT CCC CGC TGC CGA GCC GTG CGC TCC CTG CTG  tyr arg glu val leu pro leu ala thr phe val arg TAC CGC GAG GTG CTG CCG CTG GCC ACG TTC GTG CGG  pro gln gly trp arg leu val gln arg gly asp pro CCC CAG GGC TGG CGG CTG GTG CAG CGC GGG GAC CCG  arg ala leu val ala gln cys leu val cys val pro CGC GCG CTG GTG CCC CAG TGC CTG GTG TGC GTG CCC  arg pro pro pro ala ala pro ser phe arg gln val CGG CCG CCC CCC GCC GCC CCC TCC TTC CGC CAG GTG  100  lys glu leu val ala arg val leu gln arg leu cys AAG GAG CTG GTG CCC CGA GTG CTG CAG AGG CTG TGC  ala lys asn val leu ala phe gly phe ala leu leu GCG AAG AAC GTG CTG GCC TTC GGC TTC GCG CTG CTG  arg gly gly pro pro glu ala phe thr thr ser val CGC GGG GGC CCC CCC GAG GCC TTC ACC ACC AGC GTG  leu pro asn thr val thr asp ala leu arg gly ser	arg ala pro arg cys arg ala val arg ser leu leu arg cyc arg ala val arg ser leu leu arg cyc arg ala val arg ser leu leu arg cyc cyc cyc cyc cyc cyc cyc cyc cyc cy	arg ala pro arg cys arg ala val arg ser leu leu arg ser CGC GCT CCC CGC TGC CGA GCC GTG CGC TCC CTG CTG CGC AGC  20  tyr arg glu val leu pro leu ala thr phe val arg arg leu rac CGC GAG GTG CTG CGC CTG CGC ACG TTC CGC GAG CTG CTG CGC CTG CTG CGC CTG CTG CTG CGC CTG CTG



=	ALL PROPERTY	٠	•	140										150	
	trp TGG	gly GGG	leu CTG	1 eu	leu CTG	arg CGC	arg CGC	val GTG	gly GGC	asp GAC	asp GAC	val GTG	leu CTG	val GTT	his CAC
	leu	leu	ala	arg	cys	ala	leu	phe	160 val	leu	val	ala	pro	ser	CYS
	CTG	CTG	GCA	CGC	TGC	GCG	CTC	TTT	GIG	CIG	GTG	GCI	CCC	AGC	TGC ₁
	ala GCC	tyr TAC	gln CAG	170 val GTG	cys TGC	gly GGG	pro CCG	pro CCG	leu CTG	tyr TAC	gln CAG	leu CTC	gly GGC	180 ala GCT	ala GCC
	thr	gln	ala	arg	pro	pro	pro	his	190 ala	ser	gly	pro	arg	arg	arg
	ACT	CAG	GCC	CGG	CCC	CCG	CCA	CAC	GC'I	AG'I	GGA	CCC	CGA.	AGG	CG1
	leu CTG	gly GGA	cys TGC	200 glu GAA	arg CGG	ala GCC	trp TGG	asn AAC	his CAT	ser AGC	val GTC	arg AGG	glu GAG	210 ala GCC	gly GGG
	val GTC	pro	leu CTG	gly	leu CTG	pro CCA	ala GCC	pro CCG	220 gly GGT	ala GCG	arg AGG	arg AGG	arg CGC	gly	gly GGC
	ser AGT	ala GCC	ser AGC	230 arg CGA	ser AGT	leu CTG	pro CCG	leu TTG	pro CCC	lys AAG	arg AGG	pro CCC	arg AGG	240 arg CGT	gly
	ala GCT	ala GCC	pro CCT	glu GAG	pro CCG	glu GAG	arg CGG	thr ACG	250 pro CCC	val GTT	gly	gln CAG	gly	ser TCC	trp TGG
	ala GCC	his CAC	pro CCG	gly GGC	arg AGG	thr ACG	arg CGT	gly GGA	pro CCG	ser AGT	asp GAC	arg CGT	gly GGT	270 phe TTC	cys TGT
	val GTG	val GTG	ser TCA	pro CCT	ala	arg AGA	pro	ala GCC	280 glu GAA	glu	ala GCC	thr ACC	ser TCT	leu TTC	glu GAG



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gly GGT	ala GCG	leu CTC	cor	gly GGC	thr ACG	arg CGC	his CAC	ser TCC	his CAC	pro	ser TCC	val GTG	gly GGC	arg CGC
gln CAG	his CAC	his CAC	ala GCG	gly GGC	pro CCC	pro CCA	ser TCC	310 thr ACA	ser TCG	arg CGG	pro CCA	pro CCA	arg CGT	pro CCC
		chr	320	CVS	nro	nro	va1	tvr	ala	glu	thr ACC	lys	330 his	phe
			· .	alv	acn	lve	alu	340 aln	leu	arq	pro CCC	ser	phe	leu
1 011	cer	ser	350 leu	arg	סיים	ser	leu	thr	aly	ala	arg CGG	arg	360 leu	val
glu GAG	thr ACC	ile ATC	phe TTT	leu CTG	gly GGT	ser TCC	arg AGG	370 pro	trp	met ATG	pro CCA	GGG	thr ACT	pro CCC
arg CGC	arg AGG	leu TTG	380 pro	arq	leu CTG	pro CCC	gln CAG	arg CGC	tyr TAC	trp	gln CAA	met ATG	390 arg CGG	pro CCC
leu CTG	phe TTT	leu CTG	glu GAG	leu CTG	leu CTT	gly GGG	asn AAC	400 his	ala	a gln G CAG	cys TGC	pro	tyr TAC	gly
val GTC	leu CTC	leu	410 lys	thr	his CAC	CYS	pro	lev G CTC	ı arg	, g ala A GCT	ala GCG	val GTC	420 thr	pro CCA
ala GC2	ala A GCC	gly GGT	val	. cys	ala GCC	arg	glu G GAC	430 1	s pro	o glr	gly GGC	ser TCT	va]	ala G GCG



4	DE PA			440										450	
	- 3 -		glu GAG	~lu	glu GAG	asp GAC	thr ACA	asp GAC	pro CCC	arg CGT	CGC	leu CTG	val GTG	gln :	leu CTG
					•				460	•					•
	leu CTC	arg CGC	gln CAG	his CAC	ser AGC	ser AGC	pro	trp TGG	aln	val GTG	tyr TAC	GCC	phe TTC	val GTG	arg CGG
				470										480	
	ala GCC	cys TGC	leu CTG	arg	arg CGG	leu CTG	val GTG	pro CCC	pro CCA	gly GGC	leu CTC	trp TGG	GGC aja	ser TCC	arg AGG
									490	•	•				
	his CAC	asn AAC	glu GAA	arg CGC	arg CGC	phe TTC	leu CTC	arg AGG	asn AAC	thr ACC	lys AAG	lys AAG	phe TTC	ile	ser TCC
				500					٠					510	
	leu CTG	gly GGG	lys AAG	his	ala GCC	lys AAG	leu CTC	ser TCG	leu CTG	gln CAG	glu GAG	leu CTG	thr ACG	trp TGG	lys AAG
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	met ATG	ser	val GTG	arg CGG	asp GAC	cys TGC	ala GCT	trp TGG	leu CTG	arg	arg AGG	ser AGC	pro CCA	gGG GGG	val GTT
				530	•		٠							540	
	gly GGC	cys TGT	val GTT	pro	ala GCC	ala GCA	glu GAG	his CAC	arg CGT	leu CTG	arg CGT	glu GAG	glu GAG	ile	leu CTG
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	ala GCC	lys AAG	phe TTC	leu	his CAC	trp TGG	leu CTG	met ATG	ser AGT	val GTC	tyr TAC	val GTC	val GTC	glu GAG	leu CTG
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	leu CTC	arg AGG	ser TCT	ohe	phe	tyr TAT	val GTC	thr ACG	glu GAG	thr ACC	thr ACG	phe TTT	gln CAA	lys AAG	asn AAC
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	arg	leu CTC	phe	phe TTC	tyr TAC	arg CGG	01q)	ser AGT	val	tr	ser AGC	lys AAG	leu TTG	gln CAA	ser
				590	•									600	
	ile ATT	gly	ile ATC	aro	aln	his CAC	lev TTC	lys AAC	arg G AGC	y val	gln G CAG	leu CTG	arg CGG	glu	leu CTG



610 ser glu ala glu val arg gln his arg glu ala arg pro ala leu TCG GAA GCA GAG GTC AGG CAG CAT CGG GAA GCC AGG CCC GCC CTG 630 620 leu thr ser arg leu arg phe ile pro lys pro asp gly leu arg CTG ACG TCC AGA CTC CGC TTC ATC CCC AAG CCT GAC GGG CTG CGG 640 pro ile val asn met asp tyr val val gly ala arg thr phe arg CCG ATT GTG AAC ATG GAC TAC GTC GTG GGA GCC AGA ACG TTC CGC 660 650 arg glu lys arg ala glu arg leu thr ser arg val lys ala leu AGA GAA AAG AGG GCC GAG CGT CTC ACC TCG AGG GTG AAG GCA CTG 670 phe ser val leu asn tyr glu arg ala arg arg pro gly leu leu TTC AGC GTG CTC AAC TAC GAG CGG GCG CGC CCC GGC CTC CTG 690 680 gly ala ser val leu gly leu asp asp ile his arg ala tro arg GGC GCC TCT GTG CTG GGC CTG GAC GAT ATC CAC AGG GCC TGG CGC 700 thr phe val leu arg val arg ala gln asp pro pro glu leu ACC TTC GTG CGT GTG CGG GCC CAG GAC CCG CCT GAG CTG 720 710 tyr phe val lys val asp val thr gly ala tyr asp thr ile pro TAC TTT GTC AAG GTG GAT GTG ACG GGC GCG TAC GAC ACC ATC CCC 730 gln asp arg leu thr glu val ile ala ser ile ile lys pro gln CAG GAC AGG CTC ACG GAG GTC ATC GCC AGC ATC ATC AAA CCC CAG 750 740 asn thr tyr cys val arg arg tyr ala val val gln lys ala ala AAC ACG TAC TGC GTG CGT CGG TAT GCC GTG GTC CAG AAG GCC GCC 760 his gly his val arg lys ala phe lys ser his val ser thr leu CAT GGG CAC GTC CGC AAG GCC TTC AAG AGC CAC GTC TCT ACC TTG



El Pi			770									•	780	
thr ACA	asp GAC	leu CTC	σln	pro CCG	tyr TAC	met ATG	arg CGA	gln CAG	phe TTC	val GTG	ala GCT	his CAC	leu CTG	gln CAG
glu GAG	thr ACC	ser AGC	pro CCG	leu CTG	arg AGG	asp GAT	ala GCC	790 val GTC	val GTC	ile ATC	glu GAG	gln CAG	ser AGC	ser TCC
ser TCC	leu CTG	asn AAT	800 glu GAG	ala GCC	ser AGC	ser AGT	gly GGC	leu CTC	phe TTC	asp GAC	val GTC	phe TTC	810 leu CTA	arg CGC
phe TTC	met ATG	cys TGC	his CAC	his CAC	ala GCC	val GTG	arg CGC	820 ile ATC	arg AGG	gly GGC	lys AAG	ser TCC	tyr TAC	val GTC
gln CAG	cys TGC	gln CAG	GGG GJY 830	ile ATC	pro CCG	gln CAG	gly GGC	ser TCC	ile ATC	leu CTC	ser TCC	thr ACG	840 leu CTG	leu CTC
cys TGC	ser AGC	leu CTG	cys TGC	tyr TAC	gly GGC	asp GAC	met ATG	850 glu GAG	asn AAC	lys AAG	leu CTG	phe TTT	ala GCG	gly GGG
ile ATT	arg CGG	arg CGG	860 asp GAC	gly GGG	leu CTG	leu CTC	leu CTG	arg	leu TTG	val GTG	asp GAT	asp	870 phe TTC	leu TTG
leu TTG	val GTG	thr ACA	pro CCT	his CAC	leu CTC	thr ACC	his CAC	880 ala GCG	lys	thr ACC	phe TTC	leu CTC	arg AGG	thr ACC
leu CTG	val GTC	arg CGA	gly GGT	val GTC	pro CCT	glu GAG	tyr TAT	gly GGC	cys TGC	val GTG	val GTG	asn AAC	900 leu TTG	arg CGG
lys AAG	thr ACA	val GTG	val GTG	asn AAC	phe TTC	pro CCT	val GTA	910 glu GAA	asp	glu GÄG	ala GCC	leu CTG	gly GGT	. GCC
thr ACG	ala GCT	phe TTT	920 val GTT	gln CAG	met ATG	pro CCG	ala GCC	his	gly	leu CTA	phe TTC	pro	930 trp	CYS TGC



940

20:				•				940						
gly GGC	leu CTG	leu CTG	leu CTG	asp GAT	thr ACC	arg CGG	thr ACC	leu CTG	glu GAG	val GTG	gln CAG le	AGC	asp GAC	tyr TAC
ser TCC	ser AGC	tyr TAT	950 ala GCC	arg CGG	thr ACC	ser TCC	ile ATC	arg AGA	ala GCC	ser AGT	val)	thr	960 phe TTC	asn AAC
arg CGC	gly GGC	oric OTT	lys AAG	ala GCT	gly GGG	arg AGG	asn AAC	970 met ATG	arg CGT	arg CGC	lys AAA	leu CTC	phe TTT	gly
val GTC	leu TTG	arg CGG	980 leu CTG	lys AAG	cys TGT	his CAC	ser AGC	leu CTG	phe TTT	leu CTG	asp GAT	leu TTG	990 gln CAG	val GTG
asn AAC	ser AGC	leu CTC	gln CAG	thr ACG	val GTG	cys TGC	thr ACC	1000 asn AAC	ile	cyr TAC	lys AAG	ile ATC	leu CTC	leu CTG
		4	1010	D									102	
leu CTG	gln CAG	ala GCG	tyr	arg	phe TTT	his CAC	ala GCA	cys TGT	val GTG	leu CTG	gln CAG	leu CTC	pro CCA	phe TTT
his CAT	gln CAG	gln CAA	val GTT	trp TGG	lys AAG	asn AAC	pro	1036 thr ACA	phe	phe TTC	leu CTG	arg CGC	val GTC	ile ATC
ser TCT	asp GAC	thr ACG	104 ala GCC	ser	leu CTC	cys TGC	tyr TAC	ser TCC	ile ATC	leu CTG	lys AAA	ala GCC	10! lys AAG	50 asn AAC
ala GÇA	gly	met ATG	ser TCG	leu CTG	GGG	ala GCC	lys AAG	106 gly GGC	ala	ala GCC	GGC	pro CCT	leu CTG	pro CCC
ser TCC	glu GAG	ala GCC	107 val GTG	gln	trp TGG	leu CTG	cys TGC	his CAC	gln CAA	ala GCA	phe TTC	leu CTG	leu	80 lys AAG
leu CTG	thr ACT	arg CGA	his CAC	arg CGT	val GTC	thr ACC	tyr TAC	109 val GTG	pro	leu CTC	leu CTG	gly GGG	ser TCA	leu CTC



1110 1100 arg thr ala gln thr gln leu ser arg lys leu pro gly thr thr AGG ACA GCC CAG ACG CAG CTG AGT CGG AAG CTC CCG GGG ACG ACG

1120

leu thr ala leu glu ala ala ala asn pro ala leu pro ser asp CTG ACT GCC CTG GAG GCC GCA GCC AAC CCG GCA CTG CCC TCA GAC

> 1132 1130

phe lys thr ile leu asp OP

TTC AAG ACC ATC CTG GAC TGA TGGCCACCCGCCCACAGCCAGGCCGAGAGCAGA **AGGCCCGCACCGCTGGGAGTCTGAGGCCTGAGTGTGTTTGGCCGAGGCCTGCATGTCC** GGCTGAAGGCTGAGTGTCCGGCTGAGGCCTGAGCGAGTGTCCAGCCAAGGGCTGAGTGTC CAGCACACCTGCCGTCTTCACTTCCCCACAGGCTGGCGCTCGGCTCCACCCCAGGGCCAG CTTTTCYTCACCAGGAGCCCGGCTTCCACTCCCCACATAGGAATAGTCCATCCCCAGATT CGCCATTGTTCACCCYTCGCCCTGCCYTCCTTTGCCTTCCACCCCCACCATCCAGGTGGA GACCCTGAGAAGGACCCTGGGAGCTCTGGGAATTTGGAGTGACCAAAGGTGTGCCCTGTA CACAGGCGAGGACCCTGCACCTGGATGGGGGTCCCTGTGGGTCAAATTGGGGGGAGGTGC

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